

ABSTRACT

A method of synthesizing an electrical or electronic architecture of at least one part of a product including electrical wires and electrical and electronic components, such as sensors, actuators, and computing devices. In the method: the geometry of the product, which is divided into different zones, is represented two-dimensionally; routing points for the routing of the electrical wires are positioned in the different zones; connection points are positioned between the different zones; electrical and electronic components are positioned in the zones; a routing is synthesized according to the geometry of the different zones and the positions of the routing points, the connection points, and the components; the routing is assessed and, using the result of the assessment, the positions of the routing points, connection points, and/or electrical and electronic components are altered; and the synthesis and assessment are repeated.